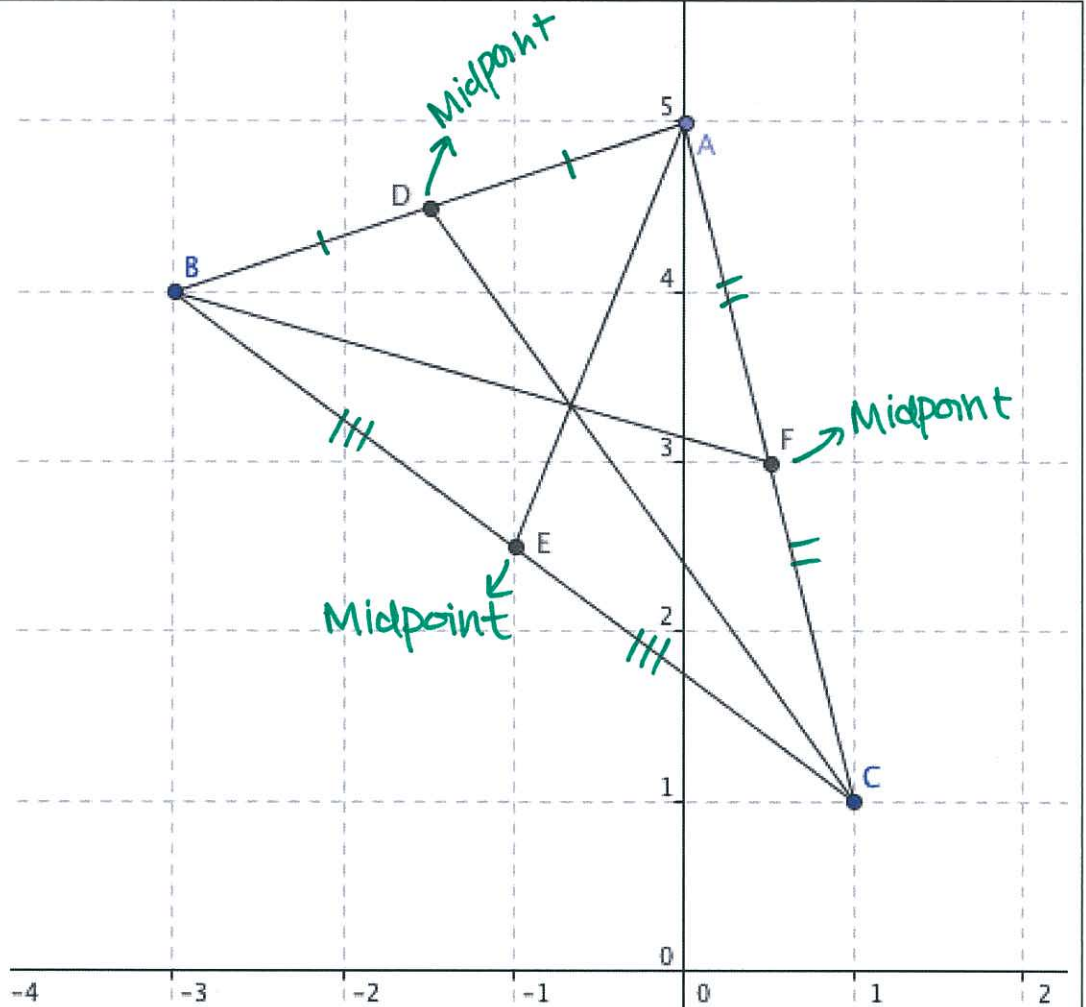


Name: _____ TP: _____

Failure to show work on all problems or use complete sentences will result in a LaSalle.

1) A median of a triangle is a line segment from one vertex to the midpoint of the opposite side. For example, A is a vertex and AE is the line segment that bisects BC. Find the coordinate of each midpoint created by each median (D, E, and F).



<p>Goal</p> <p>(what's the goal? Re-state the question in your own words).</p>	<p>Complete sentence:</p>
<p>Required</p> <p>(list the givens here!)</p>	<ul style="list-style-type: none"> List the midpoints (letters): <u> </u>, <u> </u>, <u> </u> AE <u> </u> BC Bisect means... (complete)...

Analysis (what methods will you use? How will you solve this problem?)	• Formula you will use: <div style="border: 1px solid black; width: 150px; height: 60px; display: inline-block; vertical-align: middle;"></div> • How many times will you use this formula in order to answer the entire question? _____. Why/how do you know? _____ <hr/>
Solve (do the math!)	<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;">Midpoint AB:</div> <div style="width: 30%;">Midpoint AC:</div> <div style="width: 30%;">Midpoint BC:</div> </div> <div style="display: flex; justify-content: space-between; height: 150px;"> <div style="border-left: 1px solid black; width: 30%;"></div> <div style="border-left: 1px solid black; width: 30%;"></div> <div style="border-left: 1px solid black; width: 30%;"></div> </div>
Paraphrase (check! Does your answer make sense?) * COMPLETE SENTENCES	(Plot your midpoints on the diagram in the problem! Do they rest @ the midpoint of each line segment?)

Use the description of a number line below to answer questions 5 – 6. Sketch the number line below before answering the questions.

On a number line, point W is located at 3, X is located at -5, Y is located at -16, and Z is located at 11.



* Plot the points above! ↗

5. What is the distance in coordinate units, between points W and Z?

$$|W - Z|$$

6. What is the distance, in coordinate units, between points Y and Z?

* Can distance be negative?

7. How much longer is WY than XZ?

$$|W - Y| - |X - Z| =$$

8. How much longer is YZ than WX?

9. Which of the following best describes the points P, Q, and R?

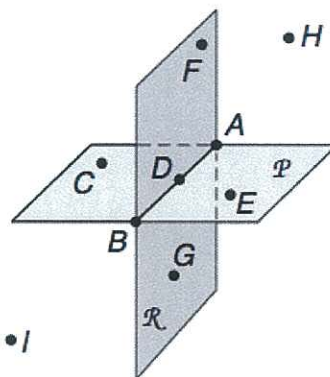
Test tip: Cross out the options you know are false!

- I. The points P, Q, and R are collinear
- II. The points P, Q, and R are non-collinear
- III. The points P, Q, and R are on the plane R



- A. I only
- B. II only
- C. I, II, and III
- D. III only

10. Use the diagram below.



Name all the points on plane P _____

Name all the points on plane R _____

Name 3 collinear points _____

On same line

Name 3 non-collinear points _____

NOT on same line

11. On a number line, what is the distance in coordinate units between point R at 5 and Q at 17?

- ① Draw the line segment?
- ② How do you find the distance?

12. Line AB is bisected at point C. Find BC if AC = 12 cm.

- ① Bisected: Splits the segment into TWO congruent pieces.
- ② Draw the two lines!



13. A number line has the following points: point M at -7, point N at 10, point K at 2, and point H at -3.

What is the difference in length between MN and KH?

- ① Draw the line
- ② Difference means: _____

$$\boxed{MN}$$

$$|M - N|$$

$$\boxed{KH}$$

$$|K - H|$$

Difference: _____ - _____ =

14. Find the midpoint of line segment RS if R (2, -1) and S (7, 6).

- ① Plot the endpoints
- ② Find the midpoint using:

